

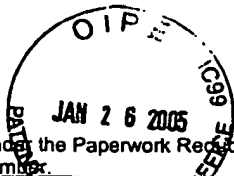


U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Application Number	10/755,746
Filing Date	01/12/2004
First Named Inventor	Xiang
Group Art Unit	2813
Examiner Name	To be determined
Attorney Docket Number	039153-5003

1

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: January 26, 2005

(use as many sheets as necessary)

Complete If Known

Application Number	10/755,746
Filing Date	01/12/2004
First Named Inventor	Xiang
Group Art Unit	2813
Examiner Name	To Be Determined
Attorney Docket Number	039153-5003 (G0167)

Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
[Handwritten mark]	A1	2004/0089914	A1	Mouli et al.	05-13-2004	
	A2	2004/0061161	A1	Radens et al.	04-01-2004	
	A3	6,706,581	B1	Bou et al.	03-16-2004	
	A4	6,673,696	B1	Arasnia et al.	01-06-2004	
	A5	6,656,749	B1	Paton et al.	12-02-2003	
	A6	6,646,322	B2	Fitzgerald	11-11-2003	
	A7	6,613,646	B1	Sahota et al.	09-02-2003	
	A8	2003/0139051	A1	Andideh et al.	07-24-2003	
	A9	6,566,228		Beintner et al.	05/20/2003	
	A10	6,548,361	B1	En et al.	04-15-2003	
	A11	6,548,261	B1	Smith et al.	04-15-2003	
	A12	2003/0049893	A1	Currie et al.	03-13-2003	
	A13	6,524,931	B1	Perera	02-25-2003	
	A14	6,498,383	B2	Beyer et al.	12-24-2002	
	A15	6,468,853	B1	Balasubramanian et al	10-22-2002	
	A16	6,456,370		Ingles, Jr.	09/24/2002	
	A17	6,426,278	B1	Nowak et al.	07-30-2002	
	A18	2002/0098689	A1	Chong et al.	07-25-2002	
	A19	6,414,364		Lane et al.	07/02/2002	
	A20	6,399,512	B1	Blosse et al.	06-04-2002	
	A21	6,391,731	B1	Chong et al.	05-21-2002	
	A22	2002/0045312	A1	Zheng et al.	04-18-2002	
	A23	6,306,722	B1	Yang et al.	10-23-2001	
	A24	6,271,143		Mendicino	08/07/2001	
	A25	6,214,696	B1	WU	04-10-2001	
	A26	6,207,531	B1	Pen-Liang	03-27-2001	
	A27	6,168,961	B1	Vaccari	01/02/2001	
	A28	6,150,212		Divakaruni et al.	11/21/2000	
	A29	6,146,970		Witek et al.	11-14-2000	
	A30	6,136,664		Economikos et al.	10-24-2000	
	A31	6,107,143		Park et al.	08/22/2000	
	A32	6,087,705		Gardner et al.	07-11-2000	
	A33	6,080,618		Bergner et al.	06/27/2000	
	A34	6,080,637		Huang et al.	06-27-2000	
	A35	6,080,627		Fan et al.	06-27-2000	
	A36	6,074,930		Cho et al.	06/13/2000	
	A37	6,074,931		Chang et al.	06-13-2000	
	A38	6,037,238		Chang et al.	03-14-2000	
	A39	6,013,937		Beintner et al.	01/11/2000	
	A40	5,837,612		Ajuria et al.	11-17-1998	
	A41	5,793,090		Gardner et al.	08-11-1998	
	A42	5,719,085		Moon et al.	02-17-1998	

Examiner Signature

[Handwritten Signature]

Date Considered

2/21/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

001.1751440.2

JAN 26 2005

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Date Submitted: January 26, 2005

(use as many sheets as necessary)

Complete if Known

Application Number	10/755,746
Filing Date	01/12/2004
First Named Inventor	Xiang
Group Art Unit	2813
Examiner Name	To Be Determined
Attorney Docket Number	039153-5003 (G0167)

Sheet

2

of

3

U.S. PATENT DOCUMENTS

U.S. Patent Document					
A43	5,700,712		Schwalke	12-23-1997	
A44	5,668,044		Ohno	09-16-1997	
A45	5,455,194		Vasquez et al.	10-03-1995	
A46	5,406,111		Sun	04/11/1995	
A47	5,266,813		Comfort et al.	11-30-1993	
A48	5,254,873		Poon et al.	10/19/1993	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A49	GB	2 254 731	A	Samsung Electronics Company Limited	10-14-1992		
	A50	EP	0 245 622	B1	International Business Machines Corporation	11-19-1987		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A51	Written Opinion of the International Searching Authority; International Application No. PCT/US2004/007464; International Filing Date 03-11-2004; 6 pgs.	
	A52	International Search Report; International Application No. PCT/US2004/007464; mailed 01/09/2004; 3 pgs.	
	A53	OHKUBO, Satoshi; TAMURA Yasuyuki; SUGINO, Rinji; NAKANISHI, Toshiro; SUGITA, Yoshihiro; AWAJI, Naoki and TAKASAKI, Kanetake; "High Quality Ultra-Thin (4nm) Gate Oxide by UV/O ₃ Surface Pre-Treatment of Native Oxide"; 1995 Symposium On VLSI Technology; Digest of Technical Papers; June 6-8, 1995; Kyoto, Japan; 3 pgs.	
	A54	Written Opinion of the International Searching Authority; International Application No. PCT/US2004/000982; International Filing Date 01-13-2004; 6 pgs.	
	A55	WOLF, Stanley, Ph.D. and TAUBER, Richard N., Ph.D.; "Silicon Processing For The VLSI Era"; Vol. 1: Process Technology; Lattice Press; 1986; pp. 57-58, 194	
	A56	GHANDHI, Sorab K. "VLSI Fabrication Principles"; John Wiley and Sons; 1983; pp. 422-423	

Examiner
SignatureDate
Considered

2/21/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.


Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

001.1751440.2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 26, 2005 <i>(use as many sheets as necessary)</i>		Application Number	10/755,746
		Filing Date	01/12/2004
		First Named Inventor	Xiang
		Group Art Unit	2813
		Examiner Name	To Be Determined
Sheet 3 of 3	Attorney Docket Number	039153-5003 (G0167)	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
AS	A57	U.S. Appl. No. 10/389,456, Filed 3/14/03, entitled "Shallow Trench Isolation For Strained Silicon Processes" (37 pgs.)	
	A58	U.S. Appl. No. 10/341,848, Filed 1/14/03, entitled "Post Trench Fill Oxidation Process for Strained Silicon Processes" (17 pgs.); Amendment to Specification (1 pg.)	
	A59	U.S. Appl. No. 10/358,966, Filed 2/5/03, entitled "Shallow Trench Isolation Process For Strained Silicon Processes" (23 pgs.)	
	A60	U.S. Appl. No. 10/341,863, Filed 1/14/03, entitled "Shallow Trench Isolation for Strained Silicon Processes" (26 pgs.); Amendment to Specification (1 pg.)	
	A61	U.S. Appl. No. 10/620,194, Filed 7/15/03, entitled "Front Side Seal to Prevent Germanium Outgassing"; (21 pgs.); Amendment to Specification (1 pg.)	
	A62	VAN ZANT, Peter, "Microchip Fabrication", McGraw Hill, 1977, pages 31 and 39	
	A63	VOSSSEN, John L. and KERN, Werner, "Thin Film Processes II"; Academic Press, 1991, page 333	

Examiner Signature		Date Considered	2/21/04
--------------------	---	-----------------	---------

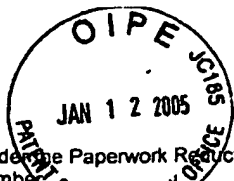
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

001.1751440.2



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

MODIFIED PTO/SB/08 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: January 12, 2005
(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/755,746
Filing Date	01/12/2004
First Named Inventor	Qi Xiang
Group Art Unit	2813
Examiner Name	To be determined
Attorney Docket Number	039153-5003 (G0167)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
ms	A1	RIM, K., WELSER, J., HOYT, J.L., and GIBBONS, J.F., "Enhanced Hole Mobilities in Surface-channel Strained-Si p-MOSFETs", 1995 International Electron Devices Meeting TECHNICAL DIGEST, 5 pages.	
l	A2	WELSER, J., HOYT, J.L., TAKAGI, S. and GIBBONS, J.F., "Strain Dependence of the Performance Enhancement in Strained-Si n-MOSFETs", 1994 International Electron Devices Meeting TECHNICAL DIGEST, San Francisco, CA December 11-14, 1994, 5 pages.	

001.1759575.1

Examiner Signature

RO SR

Date Considered

2/26/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.